

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered). Please AMEND claims 4, 7, and 9 and CANCEL claims 8 and 10 in accordance with the following:

1. (CANCELLED)

2. (CANCELLED)

3. (CANCELLED)

4. (Currently Amended) A method of creating a defocused image from an input image, comprising:

(a) receiving an input image including a plurality of pixel data;

(b) selecting one pixel data from said plurality of pixel data;

(c) converting said selected pixel data from a predetermined scale to a linear scale to generate light data having some light amount;

(d) allocating said light data to surrounding pixels on or within the area a boundary whose shape is determined from a shape of an aperture to generate a defocused disk image having a set of allocated light data so that each of ~~said set of~~ allocated light data is ~~substantially~~ equal to each other and a total light amount of said defocused disk image becomes equal to the light amount of said light data; and

(e) repeating (b) through (d) for all pixel data included in said input image to create a defocused image.

5. (Previously Presented) The method according to claim 4, further comprising: converting a scale of said defocused disk image back to said predetermined scale.

6. (Previously Presented) The method according to claim 4, further comprising: determining whether said input image is represented in said linear scale, pixel data of said input image having light data having some light amount; and skipping (b) if said input image is already represented in linear scale.

7. (Currently Amended) The method according to claim 4, further comprising:
determining said size of said defocused disk image based on distance information of
said selected pixel data,
wherein said light data is allocated to surrounding pixels on or within the area a boundary
whose shape is determined from a shape of an aperture to generate said defocused disk image
based on said size of said defocused disk image.

8. (CANCELLED)

9. (Currently Amended) A computer program, ~~product in a data processing system~~
stored on a computer readable medium, for creating a defocused image from an input image,
comprising:

- (a) program code to receive an input image including a plurality of pixel data;
- (b) program code to select one pixel data from said plurality of pixel data;
- (c) program code to convert said selected pixel data from a predetermined scale to a
linear scale to generate light data having some light amount;
- (d) program code to allocate said light data over surrounding pixels on or within the area
a boundary whose shape is determined from a shape of an aperture to generate a defocused
disk image having a set of allocated light data so that each ~~of said set of~~ allocated light data is
~~substantially equal~~ to each other and a total light amount of said defocused disk image becomes
equal to the light amount of said light data; and
- (e) program code to repeat the processes of program code (b) through (d) for all pixel
data included in said input image to create a defocused image.

10. (CANCELLED)